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TITLE : PRODUCTION OF PYRIDINE BASES

ABSTRACT : PROBLEM TO BE SOLVED: To provide a method for producing, in a higher yield, pyridine bases by catalytically reacting an aliphatic aldehyde, aliphatic ketone or a mixture thereof with ammonia in the vapor phase.

SOLUTION: In this method, an aliphatic aldehyde, aliphatic ketone or a mixture thereof react with ammonia in the presence of a catalyst in the vapor phase to produce pyridine bases, wherein the catalyst contains titanium and/or cobalt and silicon as the zeolite constituting elements, atomic ratio of silicon to titanium and/or cobalt is around 5 to 1,000, and the zeolite has a control index of around 0.8 to 12.

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